man, Washington, June, 1892, by Prof. Louis F. Henderson, ( $\mathrm{n} .2, \$ \mathrm{\$}$ ) and in a neighboring locality and same month by Mr. W. R. Hull (is 621).

Near A. Lemmoni Wats. but differing in the relatively much shored and broader leaves, much more numerous flowers, distinctly exsertod stamens and 3 -parted spathe; differing from $A$. platycaule Wats in is taller scape, shorter and broader perianth segments and crested ontr.

Calochortus ciliatus.-Low, 6-8 inches in height, branched above bulb ovate, $1 / 2$ an inch in diameter: leaf solitary, $21 / 2-3$ lines broad equalling the $4-8$-flowered stem: bracts linear, attenuate: flowers ration small: sepals ovate, acuminate, greenish-white, scarious-margined, 46 lines long: petals of equal length, light bluish-purple, paler tonnd the edges, triangular-lanceolate, rather abruptly narrowed at the base conspicuously ciliate, glabrous except the yellow doubly fringed lusp ate scale of the gland: stamens half as long as the petals: anthers of long, sagittate, apiculate, $2-21 / 2$ lines in length: capsule elliptical io cof line, acutely 3 -winged, 7-8 lines long.-Collected by T. S. Brandefut Wenatchie Region, Washington, July, 1883 (n. $\mathrm{I}, \mathrm{IO7}$ ), and by Prof L. F. Henderson on grassy slopes among pines, upper Nacher nivt Yakima co., Washington, June, 1892 (n. 2,485).-B. L. Robinsos and H. E. Seaton, Gray Herbarium, Cambridge, Mass.

## EDITORIAL.

There is an extraordinary diversity of usage in the matter of on tion of references, much more than would be imagined by those $n$th have not directed their attention to it. Writers who would be unspur ing in their condemnation of carelessness in observation or espor ment are strikingly careless in their citation of the work of otios Some papers on the contrary which have less value in themselvestr characterized by such complete and accurate bibliography that the become valuable in spite of their scanty additions to knowledge.

It seems to us that the cardinal rule that should govern citation b that papers should be so cited that they can be found with the les possible expenditure of time and trouble by one who wishes to at sult them. What information is indespensable will vary with the $\mathbb{D}$ ture of the publication. For instance the citation "Bot. Gas. Bpp ${ }^{1} 32$ " would enable one to find a given paper; but the citation "B2 Centralb. 1890. I $32^{\prime \prime}$ would not, since there are four pages bearingtion number in the four volumes for 1890 . If it were so cited the stib might have to examine all of these before finding the one desirel.

But even "Bot. Gaz. I890. 132" is not adequate to the most ready finding of the reference. In binding such journals many libraries indicate on the back only the number of the volume. If the year only vere cited two volumes or more might have to be taken down, wherezif the citation "Bot. Gaz. xVI (I890). I 32 " the paper could be found with the greatest ease, since no data are lacking.
In our opinion the following items should be given in a full citation:
(1) the title of the article; (2) the name of the publication, if abbreviated at all abbreviated so as to be readily identified ("Jour. Bot." roald not be so); (3) series number, if any; (4) volume number; (5) yar; (6) page. Designating the part, heft, lieferung or fascicle is generally useless.
For the sake of greater uniformity of typography the Gazette liss tentatively adopted that shown in the following samples. It would be a convenience if authors would follow this plan, or would agree upon some other in this time of botanical agreements.
Van Tieghem et Douliot: Les racines des phanérogames. Ann. Si. Nat, Bot. VII. viII. (1891). 256.
Vis Tieghem: Traité de Bot. II. 398. Paris. I891.

## CURRENT LITERATURE

 Sachs' Writings on Vegetable Physiology.In the domain of vegetable physiology there is one name that stands igh above all others. It is that of Dr. Julius von Sachs, the eminent porfessor of botany in the University of Würzburg. He is not the father of the science, that honor belonging to Stephen Hales, an Enplotman of a century ago, but he is its deliverer, having rescued it from 2timconsequential condition, in which it received slight consideration, and by his rare insight and acute experimentation, his breadth of view laring placed it among the foremost of the several divisions of the thence of botany. At the time he began to write more physiological Nors was done by chemists and physicists than by botanists, and the firt was not taught as a separate study; now laboratories and croity withen exclusively devoted to it, and it has risen to equal Demith the other departments of botany.
ed to which every ing Sachs, which are the basis of this advancement,
efirial poblication investigator must refer who desires to examine the
poblication of facts discovered during the last thirty-five

